

PROCESS FOR THE PREPARATION OF CEMENT COMPLEX

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A lightweight carbon fiber reinforced cement composite is produced by (1) mixing hydraulic commercial portland cement with silica powder, which is 50-200 m in average particle size, more than 90 % in silica (SiO₂) content and about 2.60-2.65 in specific gravity, (2) charging in it with PAN based carbon fiber and Pitch based carbon fiber, which are 3-20 mm long, 1.6-1.8 of specific gravity, 7,500-38,000 kgf/cm² of tensile strength, 3.5-25.0 kg/cm² of elastic coefficient, 6.5-20 [mu]m of diameter, by the volume ratio of 1.0-5.0 %, (3) changing the water/cement ratio into the range of 20-110 % using thickener additive, antifoaming agent and water reducing agent, (4) operating an autoclave hardening the above mixture at 180 +- 5 deg.C, under 10 atm, for 3-5 hrs.

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